SBR No: 59/20-21

12/01/2021

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 192368

Serial No.. Second final Bill

Name of work... Estimate for Improvements to General Public Toilet and

Name of Contractor of nature of Agency..... Septage maintenance in ward no. 11 (Chap)

Date of commencement of work.... D.L.R. 23-09-2020

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Est cost Rs. 5.00 lakhs						
	Work Code No: 011-20-000 110						
	Head of A/c: P 3 d 94						
	Work Order No: EE/BTP/SBMP/wo/111/20 01 09: 15/09/20						
	Name of the Agency: M/s ARM constructions. Note 92						
1)	Earthwork excavation for foundations of building, water supply, sanitary						
	works and electrical conduits etc in pits including soil etc						
	Toilet Block	2	3.8	1.00	1.00	7.60	
	long wall	3	2.5	1.00	1.00	7.50	
	short wall	1	11.20	4.10	0.15	2.58	
						17.65	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	FRONT	1	6.00	2.00	0.15	1.80	17.65
						19.45 cum	
		limited to	tender	Qty =		19.30 cum	
					@	3058/cum = 590	
(contd)	providing and laying in position plain cement concrete of mix						
	1:4:8 with OPC cement @ 160 Kg/cum with 40 MM aggregate down size for						
	Foundation & footing	2	3.80	1.00	0.15	1.14	
	strip/raft	3	2.50	1.00	0.15	1.13	
	Front	1	4.40	2.60	0.15	1.76	
	Flooring						
	Toilet 1	1	2.15	1.15	0.15	0.37	
	Toilet 2	1	1.60	1.50	0.15	0.36	
				total Qty =		4.80 cum	
			limited to Tender Qty = 4.72 cum				

Executive E...
Vidyaranyapura Sub...
BBMP, Bang...

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192369

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Total Qty			=	4.78 cum.	
					@	Rs 18.10/cum = Rs 4630.00	
3) 23/09/2020	Providing and constructing granite/trap/basalt size stone masonary in foundation with cement mortar 1:6 stone etc..						
	long wall	@	3.80	0.75	0.65 =	3.31 cum	
	Short wall	@	2.50	0.75	0.60 =	3.35 cum	
				Total Qty =		7.05 cum	
				Limited to tender Qty =		6.95 cum	
				@	4788.00/cum =	33266.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Item 4)	providing and constructing granite/trap basalt size stone masonry in basement with cement mortar 1:6 as per sketch etc --						
	long wall	2	3.50	0.45	0.45	1.54	
	short wall	3	0.50	0.45	0.45	1.52	
	Front wall	2	0.00	0.45	0.45	0.81	
		2	0.00	0.45	0.45	0.81	
						4.68 cum	
						total quantity = 11.58 cum	
						@ 5607.71/cum = 95684.00/-	
Item 5)	Filling available excavated earth (excluding rock) in sides of foundation up to plinth in layers not exceeding 30 cm as per sketch etc -- quantity shall be item no (1)					= 19.30 cum	
						@ 205.71/cum = 3968.00	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 192370

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6)	Providing and laying cement concrete using down and down) size granite course aggregates and fine aggregates by ready mixed etc —						
	Plinth	2	3.55	0.15	0.30	0.32	
		3	1.80	0.15	0.30	0.24	
	Lintel	2	3.55	0.15	0.15	0.16	
		3	1.80	0.15	0.15	0.12	
	Roof slab	1	3.55	0.85	0.15	1.20	
	FIRST concrete	1	4.30	4.30	0.10	1.85	
						3.86 cum	
						@ 5567.9/cum = 21498.00	

Assistant Executive E
Vidyaranyapura Sub
BBMP, Bangalo

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(HM3) providing and constructing load bearing wall with solid concrete blocks of size 400 x 150 x 200 mm having block density not less than 1800 kg/m3 etc ~~						
	long wall	2	3.55		2.70	19.17	
	short wall	3	1.80		2.70	14.58	
	Parapet wall	2	3.55		0.20	1.42	
		2	1.80		0.20	0.72	
						35.89 sqm	
	Deduct for openings	door 2	0.75		2.10	3.15	
	ventilator	2	0.60		0.45	0.54	
	lintel	2	3.55		0.15	1.07	
		3	1.80		0.15	0.81	
						30.33 sqm	

Assistant Executive Engr
Vidyaranyapura Sub Div
BBMP, Bangalore

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192371

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		limited to tender qnty = 30.12 sqm					
		@ 945.00/sqm = ₹ 5464.00/-					
	06/10/2020						
B)	providing and constructing non load bearing wall with						
	solid concrete blocks of size 400x100x200mm etc -						
		5	1.20		0.50	6.00	
		8	0.50		0.50	4.00	
		2	1.80		1.50	3.60	
						13.60 sqm	
	06/01/2020				@	849.40/sqm = ₹ 11551.00/-	

Assistant Executive
Vidyaranyapura
BBMP, Bang

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
ITEM 9	Providing T.M.T Steel Reinforcement for R.C.C. work including cut						
	Plain						
	16 mm	NOS	L	NOS	Kgs/M	Kgs	
		4	11.60	46.40	1.56	73.31	
	12 mm	4	11.60	46.40	0.89	41.30	
	8mm Rings	98	0.90	70.20	0.39	27.38	
	Bent						
	12 mm	2	11.60	23.20	0.89	20.65	
	10 mm	2	11.60	23.20	0.62	14.38	
	8mm Rings	98	0.60	46.60	0.39	16.85	
	For Roof slabs						
	12 mm	85	0.65	56.85	0.89	50.06	
	crank	85	0.45	61.85	0.89	54.51	
	10 mm	80	3.55	71.00	0.62	44.02	
	crank	80	3.75	75.00	0.62	46.50	
						390.32 Kgs.	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 192372

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Total Qty			=	0.39 tonn	
	09/10/2020				@	₹2581.49/tonn = ₹8307.00/-	
10)	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terrace etc --						
	Roof	1	3.55	2.85	=	9.99	
	existing Roof	1	3.70	2.50	=	9.25	
						19.24	
		limited to terrace Qty =				17.05 sqm	
					@	1085.90	17543.00/-

Assistant Executive Engineer
Dr. Aranyapura
BBMP, Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Item 11)	Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off etc --						
	Inside Toilet 1	1	2.15	1.50		3.23	
	Toilet 2	1	1.80	1.50		2.70	
	Front	1	3.50	1.00		3.50	
		1	3.50	1.00		3.50	
						12.93 Sqm	
		limited to tenders qnty =				12.90 Sqm	
						@ 197.39 Sqm = 2546.03	
Item 12)	Providing 20mm thick cement plaster in single coat with cement mortar 1:6 to stone masonry etc -						
	Inside wall Toilet 1	2	2.15		2.70	11.61	
		2	1.50		2.70	8.10	
	Toilet 2	2	1.80		2.70	9.72	
		2	1.50		2.70	8.10	
						37.53	

Abhijeet Vidyalaya BBMP, Bangalore

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 192373

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Existing Building	1	1.50		1.50	2.70	37.53
	Damp Portion	1	2.40		1.30	2.56	
		1	1.50		1.20	1.80	
		1	1.30		1.00	1.30	
		1	1.00		1.00	1.00	
		1	1.90		1.80	3.42	
						50.61 Sqm	
	Deductions - for door	0.51 d	0.75		2.10	1.58	
		0.51 2	0.60		0.45	0.27	
						48.77 Sqm	
	Limited to tender qty				=	48.40 Sqm	
					@	859.78/Sqm = Rs 573.00/-	

Assistant Executive E
Vidyaranyapura Sub
BBMP, Bangal

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(BM 13)	Providing 18mm thick cement plaster in single coat with cement mortar 1:4 to brick masonary including rounding off corners etc - -						
	out side	2	3.55		3.00	21.30	
		2	2.25		3.00	13.50	
					2.00	4.40	
	existing building damage portion	1	2.00		1.00	2.25	
		1	1.90		1.30	2.34	
		1	1.80		1.20	2.28	
		1	1.90		1.50	1.95	
		1	1.30		1.10	1.32	
		1	1.00			49.34	
	Deduction for ventilator	0.5+2	0.75		0.10 (-)	1.58	
		0.5+2	0.60		0.45 (-)	0.81	
						47.53	
					=	47.51 Sqm	
	15/10/2020	visited to tender duty				@ 250.56/Sqm = 11905.00	

Assistant Executive Engineer
Yelahanka Aranyapura Sub Division
BBMP, Bangalore

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 192374

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
14	providing and fixing colour glazed tiles of size 300mm x 600mm for walls with borders of size 300x100mm etc --						
	FLOORING						
	Toilet a	1	2.15	1.50		= 3.23	
	Toilet a	1	1.80	1.50		2.70	
	existing Toilet	1	1.20	1.80		2.16	
		1	1.80	1.80		1.80	
						9.89 Sqm	
	1% allowed to ten cuts only					- 9.685 Sqm	
						@ 457.96 =	4407.00/-

Assistant Executive Engineer
Yelahanka Sub Division
BBMP, Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1HM15	Providing SKIRTING, DADO, TREAD of steps with COLOUR glazed tiles on 10mm thick cement plaster 1:3 and jointed etc —						
	TOilet 1	2	0.15		0.10	0.03	
		2	1.50		0.10	0.30	
	TOilet 2	2	1.80		0.10	0.36	
		2	1.50		0.10	0.30	
	existing TOilet	2	1.80		0.10	0.36	
		2	1.80		0.10	0.36	
		2	1.80		0.10	0.36	
						51.87 Sqm	
	Deduction for DOORS	2	0.75		0.10	0.15	
		2	0.60		0.45	0.54	
						48.18 Sqm	
		Jointed TOilet only			=	47.04 Sqm	
	22/10/2020				@1669.14/Sqm =	78516.00	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192375

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
16)	providing and Removing centring, shuttering, strutting, propping etc --	1	0.15	1.50		3.93	
		1	1.60	1.50		2.70	
		2	3.30	1.00		6.60	
		2	4.00	1.00		8.40	
						20.93 Sqm	
		limited to tender qty				= 20.49 Sqm	
						@ 63.89 Rs 1309.00	
17)	supplying and fixing manufactured from 1.25mm thick etc --	provided steel door frame size 185 x 85 mm					
	New Item	2	0.45		0.10	3.15	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Existing Toilet	1	0.90		0.10	3.78	
						6.93 Sqm	
						@ 3283.00/Sqm = 22750.00	
Item 18)	Supplying and fixing pressed steel window frame of size 100x50mm manufactured from 1.25mm thick sheet etc. —						
	ventilator	1	0.60		0.45	0.54	
	Existing Toilet	1	0.75		0.45	0.68	
		1	0.75		0.45	0.68	
						1.89 Sqm	
	28/10/2020				@ 3630.00/Sqm	= 6862.00/-	
Item 19	Providing and applying two coats with oil bound washable distemper of approved brand etc. —						
	Quantity vide item NO. 11 + 18				=	61.69 Sqm	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 192376

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	limited to render only			=		61.30 Sqm	
						@118.50/Sqm = 6896.00/-	
	providing and finishing external walls in two coats with water proof cement paint of approved brand etc --						
	Quantity vide item no.13				=	47.53 Sqm	
	limited to render only				=	47.51 Sqm	
						@102.39/Sqm	4865.00

Assistant Executive E
Vidyaranyapura Sub
BBMP, Bangalor

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(1)	Providing and fixing type etc :-	white vitreous china			clay,	water closed	
		3			= 3 pan		
					@ 3519.39/pan = 10557		
(2)	Providing and fixing	white vitreous china			clay, wall corner type		
		3			3 unit		
					@ 3919.20/unit = 11758.60		
(3)	Providing and fixing PVC panel front window	white vitreous china			clay, flat back,		
		2			= 2 unit		
					@ 3083.34/unit = 6167		
(4)	Providing and fixing	white vitreous china			clay, flat back, wash basin		
		2			= 2 unit		
					@ 4098.20/unit		
					= 8196.00		

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 192377

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
95)	providing and fixing chlorinated poly vinyl chloride pipes etc.-	1	90.00			= 90.00M @ 160.54/M = 3911.00/-	
96)	providing and placing on terrance polythylene water storage tanks with manhole etc.-	1				1 NOS. @ 6654.00/NO'S = 6654.00/-	
97)	providing and fixing in position brass bib cock of approved quality	10				=10 Each @ 341.37/Each = 3414.00/-	
98)	providing and fixing sand cast iron soil waste and						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	NET PIPE 100MM dia with SPUN etc - -	1	15.00		=	15.00 M	
					@	681.16/M =	10217.00
				SUB TOTAL AMT		=	4,88,844.00
	11/11/2020			GST @ 6%			50 741.00
	Verified		Grand TOTAL AMT			=	4,73,585.00
	Executive Engineer						
	Certificate						
1)	the above work has been completed satisfactorily						
2)	NO material issue from Department						
	11/11/2020						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 192378

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	✓	V		V		Toilet Block, ward office Singapura	
		2.15 x 1.50m		1.80 x 1.50m		2.25 m	
		D		D			
			3.55m			Tiles	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P-3294 ರಡಿ

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 473500 ಗಳನ್ನು ಪಾಸು ಮಾಡಿದೆ.

ಇದರಲ್ಲಿ ರೂ. 22900 ಗಳನ್ನು ಹೊಂದಾಣಿಕೆ

ಮಾಡಿಕೊಂಡು ರೂ. 450600 ಗಳನ್ನು

FT/NEFT/RTGS ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

01/03

ಕಾರ್ಯ ನಿರ್ವಾಹಕರು

ಲೆಕ್ಕಾಧಿಕಾರಿ
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ, ಬೆಂಗಳೂರು

01/03

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು

Deductions

Total	473500
IT	4735
LC	4735
CESS	474
CGST	4228
SGST	4228
LR	4500
T.D	22900
Net	450600